



Commanders' Risk Mitigation Dashboard (CRMD) Quick Start Guide

Section 1: Introduction

CRMD is an operational tool for unit-level prediction of destructive behaviors in the Navy. Identifying these risk factors early arms Commanders with the tools and knowledge to implement measures that may help avoid destructive behaviors in their commands. CRMD is not intended to be used punitively. Data is updated quarterly.



Figure 1: CRMD Summary Slide

Section 2: User Access / Help Desk

Personnel identified as members of an active command triad will be granted access automatically based on their assigned role.

Commands may designate additional appointees to have access to their CRMD. For individual units, this endorsement must come from the CO or XO. For Echelon II-IV, Chief of Staff-level endorsement (or equivalent) is required. Endorsement can be a brief email from the appropriate authority approving access to **CRMD@navy.mil** or **ADEHelpDesk@us.navy.mil**. An email template is available for download under the

quick links section of the CRMD home page.

Once access is configured, the dashboard can be reached via this URL:

https://crmd.portalprod.ade.cloud.navy.mil.

If you need any help accessing CRMD, please email the ADE Help Desk at ADEHelpDesk@us.navy.mil.







Section 3: CRMD Overview

Data Sources

The following data sources are currently used in the risk models for the CRMD:

MyNavy HR - AQD_DATA	Pharmacy Detail Transaction Service
MyNavy HR - ASVAB_DATA	Standard Inpatient Data Record
MyNavy HR - EDUCATION_DATA	Tricare Encounter Data Institutional
MyNavy HR - EVAL_DATA	Tricare Encounter Data Non-Institutional
MyNavy HR - LIMDU_DATA	Medical Data Repository Clinical Data Reporsitory Vitals (DHA)
MyNavy HR - MRRS_DEPLOYMENT_FLAG	Comprehensive Ambulatory/Professional Encounter Record
MyNavy HR - OFFICER_DESIGNATOR_DATA	Theater Medical Data Store
MyNavy HR - PERSON_DATA	Navy Alcohol Drug Misuse Prevention Control System
MyNavy HR - PFA_DATA	Defense Casualty Incident Personnel System
MyNavy HR - RANK_DATA	Defense Sexual Assault Incident Database Case
MyNavy HR - SERVICE_DATA	Defense Sexual Assault Incident Database Subject Data
MyNavy HR - UIC_INFO	Defense Sexual Assault Incident Database Victim Data
MyNavy HR - WAIVER_DATA	Sexual Harassment Equal Opportunity
MyNavy HR - DEPLOYMENT_DATA_MRRS	Medical Health System Genesis Encounter
Periodic Health Assessment	Medical Health System Genesis Admissions
Periodic Health Reassessment	Health of the Force
DoD Suicide Event Report	

Table 1: Current CRMD Data Sources

Data Displays

CRMD displays an overall risk score and six different category risk scores for an individual unit on the main screen with the ability to drill down into the different categories to access information on the contributing factors to those risk categories. In addition, Navy peer group and Navy overall risk scores are also provided for comparison purposes. CRMD's risk scores measure the risk of a destructive behavior/event in the next quarter based on individuals' current contributing factors.

Contributing Factors to Risk

Along with the overall and category risk scores, there is also a quarter-by-quarter display of demographic, service-related, or health-related factors that most contribute to the predicted probability of destructive behaviors/events occurring within the individual unit. These factors are relevant to the individual unit, relative to the unit's peer group, and specific to the risk category selected.

The view on the Risk Category screens can be changed to display the top 5 risk factors/factor constructs that contribute to increases or decreases in risk of experiencing a destructive behavior/event for each calendar quarter by clicking on the quarter tile about each quarters' score. The factors/factor constructs are displayed on a bar graph along with their Shapley values below the quarterly scores.

Data Dictionary

The CRMD Data Dictionary screen consists of four tabs each providing a different type of information related to the data used to generate risk scores and populate the dashboard. Please note that the Data Dictionary screen is









a living page and will be updated as new data is added to the dashboard and machine learning models. The information provided by each tab includes:

- **Data Constructs** The compilations of individual features used in model training combined for dashboard display to improve interpretability
- Individual Features Standalone data elements used for model training
- Features Controlled For Features controlled for in the models but do not appear in dashboard display
- Data Sources List of data sources utilized to train the models along with the date range of the data source and the data refresh periodicity

Additional Details

For additional information and detail on the displays, risk score calculations, contributing factors, peer group definitions, and color backdrops please refer to the complete CRMD User Guide.

Section 4: CRMD Navigation

Home Screen:

Provides a brief overview of CRMD, the Helpdesk email address, and a dropdown menu to select your unit for viewing.

Home Data Dictionary
The CRMD provides a high-level overview of risk within your unit. This information can help you uncover potential stressors and determine where additional
And/or support is needed. Please note that units with 10 or less members will not be able to access the predictive metrics available in this dashboard to protect the privacy of individual members in a unit. For further assistance or clarification please contact us by email at: ADEHelpDesk@us.navy.mil.
UIC To get started, please select your unit (UIC): SAMPLE 2 99992

Figure 2: CRMD Home Screen







Main Screen:

Displays all risk scores for the unit, the Navy peer group, and Navy-wide average, as well as a unit complement breakdown, and drilldown capability to the contributing factors for each of the risk categories.



Figure 3: CRMD Main Screen

Risk Category Drilldown View:

Each risk category has a unique drilldown view that displays a unit-level Risk Score, the Navy Peer Group Risk Score, the Navy Average Risk Score, and Contributing Factors lists which is accessed by clicking on the risk category score tile on the Main Screen.



Figure 4: CRMD Risk Category Screen









Data Dictionary Screen:

Consists of **four tabs**, each explaining the data used to generate risk scores and populate the dashboard.

1) Data Constructs Tab:

Home	Overview	Suicide	Alcohol	Drugs	SH	SA Victim	SA Subject	Data Dictiona
Data Dictio	Onary ons below to select yo dashboard display to fels.	our dictionary of improve interpr	interest. The Dat a retability. Please n	a Constructs dict ote that this is a li	onary identifies the ving page and will	compilations of ind be updated as new	lividual features u data is added to	sed in model the dashboard a
ast Updated: Septer Data Con	nber 14, 2023 structs	Individ	lual Features	Fea	tures Controll	ed For	Data So	urces
Behavioral Health Concerns	Sailor has docum PHA completed b is over 10; one or	ented struggle with y the Sailor; Sailor more behavioral h	alcohol- and/or subs self-reported drinking ealth concern(s) were	tance-related illness(alcohol more than 1 e reported by the Sail	es); a health provider o 4 times a week; Sailor or in the most recent o	documented one or mo 's depression score on ompleted PHA; Sailor v	re medical concerns the PHQ-8 Depressi was a sexual or nons	in the most recent on Assessment Sca exual harassment vi
Completed Destructiv Behavior Trainings	Ve Sailor has comple	Sallor has completed and passed trainings related to destructive behaviors						
Less Crew Experienc	e Sailor has been in	Sallor has been in active service for 60 months or less; is rank E1-E5; has served in less than 2 UICs; or has served in their current UIC for 12 months or less						
Medical Referrals	A healthcare prov	A healthcare provider recommended one or more medical referral(s) for the Sailor in the most recent PHA completed						
Mental Health Medica Encounters	I Number of medic	Number of medical encounters for a mental health condition since October 2016						
More Crew Experienc	Sailor has been in has completed lea	Saltor has been in active service for over 60 months; is rank E6+, CWO, or O; has served in 2 or more UICs; has served in their current UIC for over 12 months; or has completed leadership training courses						
Off-Track Career Progression	Sailor has an indi	Salor has an individual performance trait average of 1 or 2; or has received a disciplinary waiver or a negative promotion or retention recommendation						
On-Track Career Progression	Sailor has an indi	Salor has an individual performance trait average of 3 or above; has not received a disciplinary waiver or a negative promotion or retention recommendation						
Other Medical Indicat	Sailor has a high has a medical wa	Sallor has a high number of medical visits; the average amount of physical pain experience by the Sallor in the most recent completed PHA is higher than a 7; Sallor has a medical waiver; Sallor has urgent or routine medical encounters while deployed; Sallor contracted a disease or sustained an injury while deployed						
Prescription Drug Us	e Sailor has a histo	Salor has a history of being prescribed one or more medication(s) to address health concerns since October 2016						

Figure 5: CRMD Data Constructs Screen

2) Individual Features Tab:

Home Ove	rview Suicide Alcohol Drugs SH SA Victim SA Subject Data Dictionary				
Data Dictionary Please volt the buttons below to select your dictionary of interest. The Individual Features dictionary identifies standalone data elements used for model training. Please note that this is a living page and will be updated as new data is added to the dashboard and machine learning models. Last Updated: September 14, 2023					
Data Constru	Individual Features Features Controlled For Data Sources				
Active Duty	Sailor is cleared for active duty based on evaluation records				
Age	Sailor's current age (Less Than 21, 21 to 23, 24 to 26, 27 to 30, 31 to 36, or Greater Than 36)				
Alcohol Use (Medical Record: Self Report)	Alcohol Use (Medical Record: Self Report) Sailor's typical alcohol consumption as self-reported to a healthcare provider during a medical encounter				
ASVAB AFQT Score	Sailor's Armed Services Vocational Aptitude Battery Armed Forces Qualification test score. Low: Scores below 35; Medium: Scores between 35 and 70; High: Scores of 70 or higher				
Marital Status, Dependents, Salor's marital status (Single, Married, Divorced, Widowed) and whether they have dependents (Has Dependents, No Dependents). Marital status or dependent information may be excluded from the feature name for cases in which this data was missing or unavailable for the Salor.					
Sex	Sex of the Sailor (MF) based on personnel records				
Tobacco Use (Medical Record: Self Report)	Sailor's tobacco usage (yes/no) as self-reported to a healthcare provider during a medical encounter				

Figure 6: CRMD Individual Features Screen







3) Features Controlled For Tab:

Home Overview	Suicide Alcohol Drugs SH SA Victim SA Subject Data Dictionary					
Data Dictionary Please utilize the buttons below to select do not appear in dashboard display. Plea Last Updated: September 14, 2023	your dictionary of interest. The Features Controlled For dictionary identifies features that were controlled for in the models but se note that this is a living page and will be updated as new data is added to the dashboard and machine learning models.					
Data Constructs	Individual Features Features Controlled For Data Sources					
Currently in Involuntary Extension	Sailor is currently in involutary extension of service					
Months Since FirstLast Alcohol Medical I Mumber of months past alines the first or most recent alcohol-related medical encounter +NA Bencounter +NA Months Since FirstLast Substance Use Manuber of months past alines the first or most recent drug related medical encounter. An NA value means there is no record of this behavior for the Salic/ Postber values are independent with the since first or most recent drug related medical encounter. An NA value means there is no record of this behavior for the Salic/ Postber values are independent with the since first or mostber values are included in the Behaviore constant.						
Months Since Last Suicide-Related Incident - N/A	Number of months elapsed since the suicide-related incident recorded in the Sailor's current UIC. An N/A value means there is no record of this behavior for the command. Positive values are included in the Behavioral Health Concerns construct.					
Months To EAOS	Number of months until end of active obligated service date (Less Than 7, 7 to 12, 13 to 24, 25 to 36, 37 to 48, 49 to 60, Greater Than 60)					
Occupation Code	Salior's Navy occupational career category					
Recent Drug/Alcohol Incident Recorded (ADMITS)	Sailor was recently involved in at least one alcohol or drug abuse event as recorded in ADMITS					
Recent Sexual Assault Recorded (DSAID, Subject)	Sallor was recently involved in at least one sexual assault perpetration event as recorded in DSAID					
Recent Sexual Assault Recorded (DSAID, Victim)	Sailor was recently involved in at least one sexual assault victimization event as recorded in DSAID					
Recent Sexual Harassment Incident Recorded (SH/EO)	Sailor was recently involved in at least one sexual harassment event as recorded in SH/EO					
Recent Suicidal Behavior Recorded (DODSER)	Sailor was recently involved in at least one suicidal behavior event as recorded in DODSER					
Shore/Afloat Command	Whether the UIC the Sailor is currently serving in is primarily a Shore or Afloat command based on assignment codes					
Total Number of Medical Visits (Low/ Medium)	Total number of medical encounters (e.g., visits, inpatient stays, battle injury, non-battle injury) a Sailor has had in the past year. The Low and Medium classes are not displayed in the dashboard; however, the High class is captured within the Other Medical Indicators construct.					
Total UIC Harassment Incidents - N/A	Number of harassment (sexual or non-sexual) complaints on record for the Sailor's current UIC. An N/A value means there is no record of this behavior for the command. Positive values are included in the Behavioral Health Concerns construct.					
Total UIC Suicide Related Incidents - N/A	Number of suicide-related incidents on record for the Salior's current UIC. An N/A value means there is no record of this behavior for the command. Positive values are included in the Behavioral Health Concerns construct.					
UIC Size	Number of sailors in UIC the Sailor is serving in					
Weight (lbs), Height (inches)	Sallor's weight in pounds, height in inches based on their most recent vitals records					

Figure 7: CRMD Features Controlled For Screen

4) Data Sources Tab:

Home Overview	Suicide Alcohol Dr	ugs SH	SA Victim	SA Subject Data Dictiona		
Data Dictionary Please utilize the buttons below to select y that this is a living page and will be updat	your dictionary of interest. The Data Sourc led as new data is added to the dashboard	es dictionary identifie and machine learning	s a list of data sources g models.	utilized to train the models. Please no		
Last Updated: September 14, 2023 Data Construct	Individual Features	Features Co	ontrolled For	Data Sources		
(ADE) NAVYY MEMBER ASSIGNMENTS	VIEW	CY11-Current	Monthly snapshots	2011-19: Daily snapshots starting Jan 2		
(ADE) NAVYY MEMBER ASVAB VIEW		CY11-Current	Monthly snapshots	2011-19; Daily snapshots starting Jan 2		
ADE) NAVYY MEMBER DESIGNATOR V	IEW	CY11-Current	Monthly snapshots	2011-19; Daily snapshots starting Jan 2		
ADE) NAVYY_MEMBER_EVALS_VIEW		CY11-Current	Monthly snapshots	Monthly snapshots 2011-19: Daily snapshots starting Jan		
ADE) NAVYY_MEMBER_INJURY_VIEW		CY11-Current	Monthly snapshots 2011-19; Daily snapshots starting Jan Monthly snapshots 2011-19; Daily snapshots starting Jan Monthly snapshots 2011-19; Daily snapshots starting Jan			
(ADE) NAVYY_MEMBER_PERSON_VIEW		CY11-Current				
(ADE) NAVYY_MEMBER_RANK_VIEW		CY11-Current				
(ADE) NAVYY MEMBER SERVICE VIEW		CY11-Current	Monthly snapshots 2011-19; Daily snapshots starting Jan			
(ADE) NAVYY_MEMBER_WAIVERS_VIEW	i	FY17-Current	Daily snapshots starting Jan 17			
(ADE) NAVYY_PERSON_TRAINING_VIEW		CY11-Current	Monthly snapshots	2011-19; Daily snapshots starting Jan		
(External) COMPREHENSIVE AMBULATOR	RY/PROFESSIONAL ENCOUNTER RECO	FY17-July 23	Monthly			
(External) DEFENSE SEXUAL ASSAULT IN	NCIDENT DATABASE CASE	FY17-August 23	Monthly			
(External) DEFENSE SEXUAL ASSAULT IN	NCIDENT DATABASE SUBJECT DATA	FY17-August 23	Monthly			
(External) DEFENSE SEXUAL ASSAULT IN	NCIDENT DATABASE VICTIM	FY17-August 23	Monthly			
(External) DEPT OF DEFENSE SUICIDE EV	/ENT REPORT	FY17-July 23	Monthly			
(External) MEDICAL DATA REPOSITORY	CLINICAL DATA REPOSITORY VITALS (D	FY17-June 23	Monthly			
(External) MEDICAL HEALTH SYSTEM GE	FY17-July 23	Monthly				
(External) MEDICAL HEALTH SYSTEM GE	FY17-July 23	Monthly				
(External) NAVY ALCOHOL DRUG MISUSE	E PREVENTION CONTROL SYSTEM	FY17-August 22	As Required			
(External) PERIODIC HEALTH ASSESSME	NT	FY17-July 23	Monthly			
(External) PHARMACY DETAIL TRANSACT	TION SERVICE	FY17-July 23	Monthly			
(External) SEXUAL HARASSMENT EQUAL	OPPORTUNITY	FY17-July 23	Monthly			
(External) STANDARD INPATIENT DATA R	RECORD	FY17-March 23	Monthly			
(External) THEATER MEDICAL DATA STO	RE	FY17-June 23	Monthly			
(External) TRICARE ENCOUNTER DATA -	NON INSTITUTIONAL	FY17-June 23	Monthly			
(External) TRICARE ENCOUNTER DATA IN	NSTITUTIONAL	FY17-June 23	Monthly			

Figure 8: CRMD Data Sources Screen



